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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/633,806	08/04/2003	YuanQiao Rao	85018LMB	7231	
7590 08/24/2004		EXAMINER			
Paul A. Leipo Patent Legal St			SCHILLING,	SCHILLING, RICHARD L	
Eastman Kodak Company			ART UNIT	PAPER NUMBER	
343 State Street Rochester NY	-		1752		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	. 1
Office Action Summary	10/633806 Rao etal		
Onice Action Summary	Examiner R/Schi	Ilina.	Group Art Unit
-The MAILING DATE of this communication appear	s on the cover she	et beneath the c	correspondence address-
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	D EXPIRE	MONTH(S	S) FROM THE MAILING DA
 Extensions of time may be available under the provisions of 37 CFR 1. from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a replied In NO period for reply is specified above, such period shall, by default, Failure to reply within the set or extended period for reply will, by statut 	ply within the statutory mexpire SIX (6) MONTHS	ninimum of thirty (30) from the mailing da) days will be considered timely.
Status ·			
☐ Responsive to communication(s) filed on			
☐ This action is FINAL.		- 1	•
 Since this application is in condition for allowance except to accordance with the practice under Ex parte Quayle, 1935 	for formal matters, p 5 C.D. 1 1; 453 O.G.	rosecution as to 213.	the merits is closed in
Disposition of Claims			
© Claim(s)		is/are	pending in the application
Of the above claim(s)			
□ Claim(s)			
□ Claim(s) 1-23	is/are	is/are rejected	
□ Claim(s)			
□ Claim(s)		aro cu	bioot to rootriction or classic
Application Papers			ement.
☐ See the attached Notice of Draftsperson's Patent Drawing ☐ The proposed drawing correction, filed on		d	
☐ The proposed drawing correction, filed on is/are objects	Epfed additional by the Examine	a ⊔aisapprove •r	a.
☐ The specification is objected to by the Examiner.	ou to by the Examine		
$\hfill \square$ The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. § 119 (a)-(d)			
 □ Acknowledgment is made of a claim for foreign priority und □ All □ Some* □ None of the CERTIFIED copies of th □ received. □ received in Application No. (Series Code/Serial Number 	ne priority documents	s have been	
□ received in this national stage application from the Inter-	national Bureau (PC	T Rule 1 7.2(a)).	·
	•		
*Certified copies not received:			
Attachment(s)	(s).8-4-03	∃Interview Sumr	nary PTO-413
	• •	□ Interview Sumr	nary, PTO-413 nal Patent Application, PTO

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- 1. The status of the copending application cited on page 1 of the specification should be updated.
- 2. Claim 22 is rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention. The term "support enhanced by at least" in claim 22 is indefinite.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -(b) the invention was patented or described in a
 printed publication in this or a foreign country or in
 public use or on sale in this country, more than one
 year prior to the date of application for patent in the
 United States.
 - (e) The invention was described in (1) an application for patent, published under Section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 1-3 and 5-23 are rejected under 35 U.S.C. §

102(b) as being fully met by Christian et al. Christian et al.

(see particularly column 6, lines 38-61; column 7, line 48 column 10, line 47) discloses imaging elements with antistatic
layers with swellable clay particles comprising natural clay
intercalated or exfoliated with hydrophilic polymers.

- 4. Claims 1-8 and 10-23 are rejected under 35 U.S.C. § 102(b) as being fully met by Aono. Aono (see particularly column 3, line 30 column 4, line 25; column 5, lines 8-16; column 23, lines 52-60) disclose imaging elements with layers comprising natural clay particles in hydrophilic polymers, preferably gelatin, which are splayant materials. The clay particles of instant claims 1-8 and 11-23 are not required to be intercalated or exfoliated. Also, the clay particles in Aono are disclosed as exfoliated, i.e. the plates or layers of the clay particles are cleaved into a sol.
- 5. Claims 1-3, 5, 6 and 9-23 are rejected under 35 U.S.C. § 102(e) as being anticipated by Majumdar et al. '696. The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. § 102(e). This rejection under 35 U.S.C. § 102(e) might be overcome either by a showing under 37 CFR 1.132 that any

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invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131. Majumdar et al. '696 (see particularly column 2, lines 21-28; column 3, lines 5-27; column 3, line 65 - column 5, line 48; column 10, lines 48-66; column 11, lines 54-65; Example 1) disclose imaging elements with support layers with layers of nanocomposite particles for stiffer supports. The nanocomposite particles include natural clay intercalated and/or exfoliated with splayants. The layers with clay particles may be coated on the top or bottom of a support to increase stiffness.

6. Claims 1-3 and 5-23 are rejected under 35 U.S.C. §
102(e) as being anticipated by Dontula et al. The applied
reference has a common assignee with the instant application.
Based upon the earlier effective U.S. filing date of the
reference, it constitutes prior art under 35 U.S.C. § 102(e).
This rejection under 35 U.S.C. § 102(e) might be overcome either
by a showing under 37 CFR 1.132 that any invention disclosed but
not claimed in the reference was derived from the inventor of
this application and is thus not the invention "by another," or
by an appropriate showing under 37 CFR 1.131. Dontula et al.
(see particularly column 4, lines 1-15; column 6, lines 44-57;
column 7, line 65 - column 8, line 20; column 9, line 63 - column

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- 10, line 60; column 11, line 44 column 12, line 15; Example 1) disclose imaging elements with supports comprising layers comprising clay nanocomposite materials of natural clay and splayant including polymers of instant claim 8. Example 1 uses the same nanocomposite clay material as in the Examples of applicants' specification.
- 7. Claims 1-23 are rejected under 35 U.S.C. § 102(e) as being anticipated by Rao et al. The applied reference has a common assignee and inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. § 102(e). This rejection under 35 U.S.C. § 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131. Rao et al. (see particularly column 4, lines 13-60; column 8, line 29 - column 10, line 52; column 11, lines 5-15; Examples 1-12) disclose imaging elements with barrier layers over imaging layers. The barrier layers comprise natural clay particles intercalated and/or exfoliated with hydrophilic polymers. Examples 1-12 use the same nanocomposite clay materials as used in the Examples in applicants' specification.

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- The prior art submitted by applicants has been 8. considered. Vandenabeele '709 and Vandenabeele '705 are cited of interest in the art as disclosing imaging elements comprising clay particles. Majumdar et al. '227 is cited of interest in the art as disclosing imaging elements with antistatic layers comprising clay particles intercalated and/or exfoliated with a polymer.
- Any inquiry concerning this communication should be 9. directed to Mr. Schilling at telephone number (571) 272-1335.

RLSchilling:cdc

August 20, 2004

RICHARD L. SCHILLING